Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-05-07** **Date: 09/04/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.

Agency : Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/DD/WO/361/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-18

Sample ID No : 2018-04-05-07 /01

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	02/04/2018	09/04/2018	149.85 X 149.85 X 151.22	22455	8.152	559.1	24.9	25.3
2	C C Pavement	M30	02/04/2018	09/04/2018	150.35 X 150.49 X 150.32	22626	8.324	572.4	25.3	
3	C C Pavement	M30	02/04/2018	09/04/2018	149.72 X 151.85 X 150.38	22735	8.208	584.3	25.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-05-07** **Date: 30/04/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.

Agency : Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/DD/WO/361/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-18

Sample ID No : 2018-04-05-07 /02

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	02/04/2018	30/04/2018	150.34 X 149.82 X 150.34	22524	8.149	752.3	33.4	32.9
2	C C Pavement	M30	02/04/2018	30/04/2018	150.98 X 150.35 X 150.22	22700	8.073	737.7	32.5	
3	C C Pavement	M30	02/04/2018	30/04/2018	149.65 X 150.49 X 150.45	22521	150.940	740.9	32.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-05-07** **Date: 09/04/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.

Agency : Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/DD/WO/361/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-18

Sample ID No : 2018-04-05-07 /01

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	02/04/2018	09/04/2018	149.85 X 151.47 X 151.05	22698	8.205	587.9	25.9	25.5
2	C C Pavement	M30	02/04/2018	09/04/2018	150.98 X 150.44 X 150.75	22713	8.198	576.9	25.4	
3	C C Pavement	M30	02/04/2018	09/04/2018	150.75 X 150.74 X 150.22	22724	8.189	572.6	25.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-05-07** **Date: 30/04/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.

Agency : Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/DD/WO/361/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-18

Sample ID No : 2018-04-05-07 /02

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M30	02/04/2018	30/04/2018	149.88 X 151.38 X 150.75	22689	8.198	753.3	33.2	32.9
2	C C Pavement	M30	02/04/2018	30/04/2018	150.98 X 150.74 X 150.77	22759	8.163	744.2	32.7	
3	C C Pavement	M30	02/04/2018	30/04/2018	150.54 X 150.29 X 150.77	22625	8.172	744.4	32.9	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-03-27-03** **Date: 29-03-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/361/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-18
Sample ID No	:	2018-03-27-03/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	27-03-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.4	305.7
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.5	66.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	236.1	239.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.8	0.4
5	Aggregate impact value	(B/A)*100	22.4	21.6
6	Aggregate impact value (Mean of two tests)	Pecentage	22.0	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-03-27-03** **Date: 29-03-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/361/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-18
Sample ID No	:	2018-03-27-03/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	27-03-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.4%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.8%	
Combined Flakiness and Elongation Index for WMM	22.2%	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-28-09** **Date: 31-03-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/361/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-09 /01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.89	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.54	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-28-09** **Date: 26-04-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/361/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-09 /01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	29-03-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-03-28-09** **Date: 30-03-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/361/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-18
Sample ID No	:	2018-03-28-09 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-03-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.390	508	625	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	535	652	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	552	672	20.0%	Satisfactory	Satisfactory

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-03-27-03** **Date: 29-03-18**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to CC road and drain at 10th Cross and other cross road Bagalagunte main road in ward No.14, Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/361/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-18
Sample ID No	:	2018-03-27-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	27-03-18
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	228	228	2.1	97.9	95-100
22.4	2389	2617	23.8	76.2	60-80
11.2	2477	5094	46.3	53.7	40-60
4.75	2849	7943	72.2	27.8	25-40
2.36	1149	9092	82.7	17.3	15-30
0.6	701	9793	89.0	11.0	8-22
0.075	807	10600	96.4	3.6	0-5

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